

FIG. 1 PRIOR ART

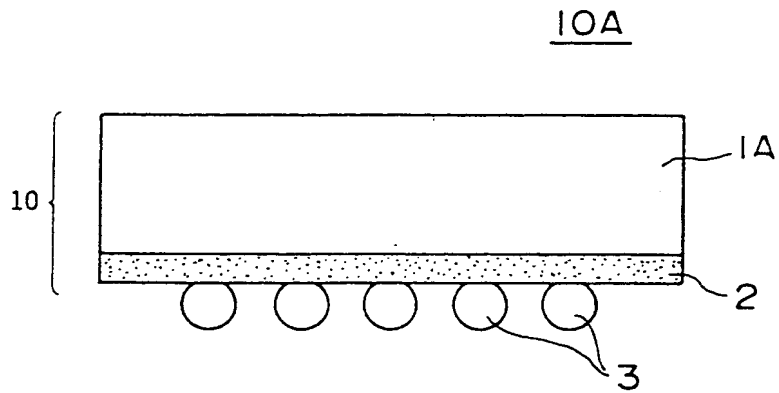


FIG. 2 PRIOR ART

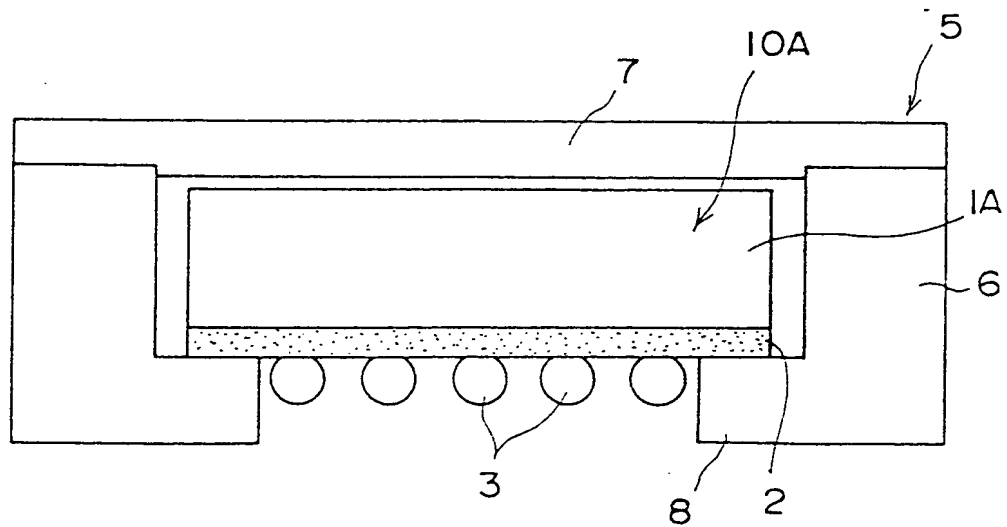


FIG. 3 PRIOR ART

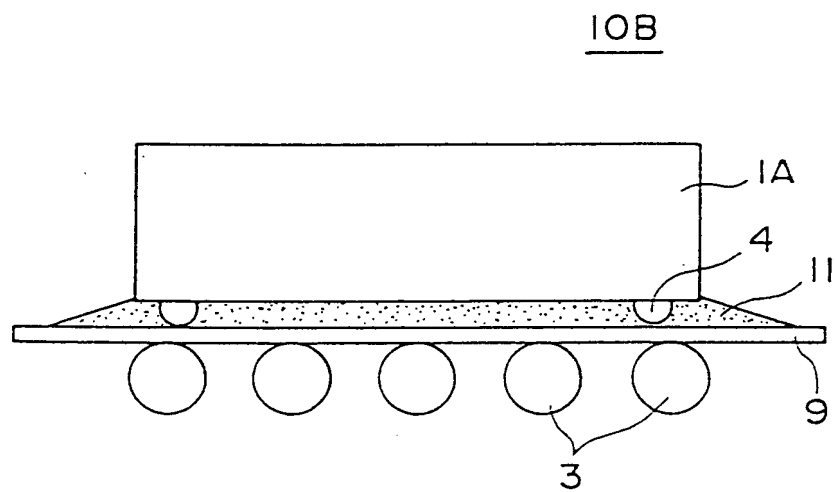


FIG. 4 PRIOR ART

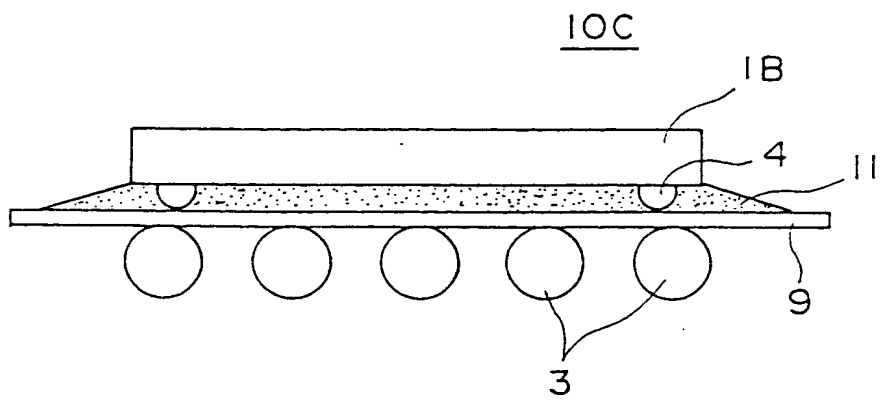


FIG. 5A PRIOR ART



FIG. 5B PRIOR ART

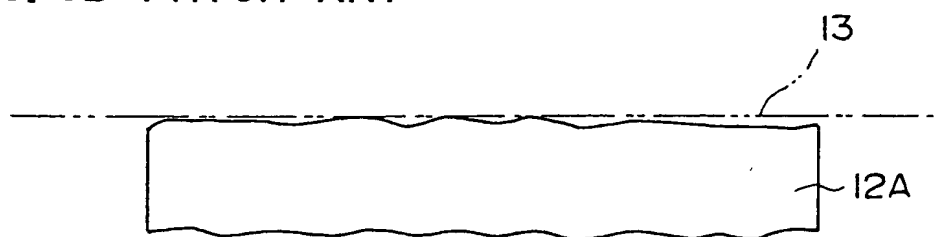


FIG. 5C PRIOR ART

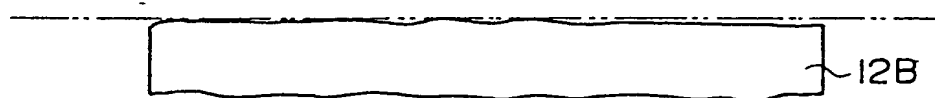


FIG. 5D PRIOR ART



FIG. 6A

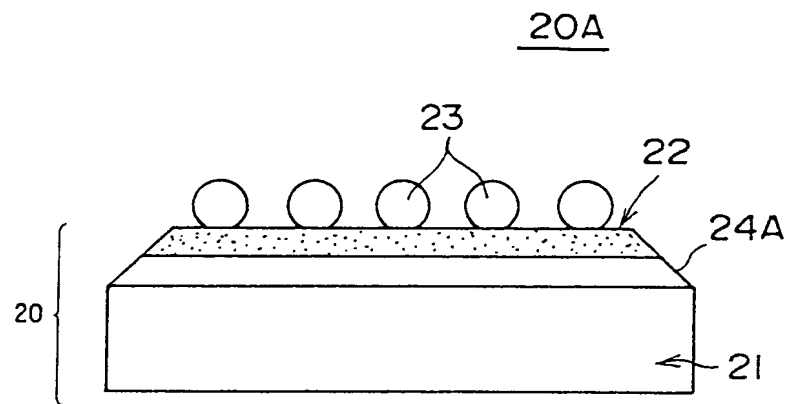


FIG. 6B

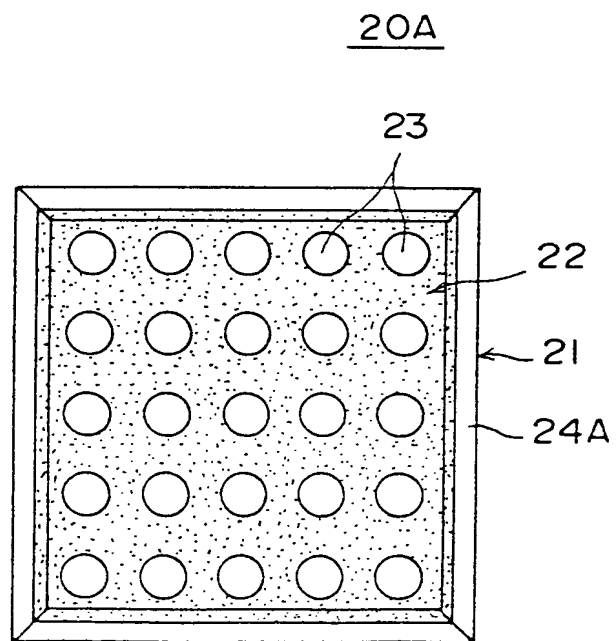


FIG. 7A

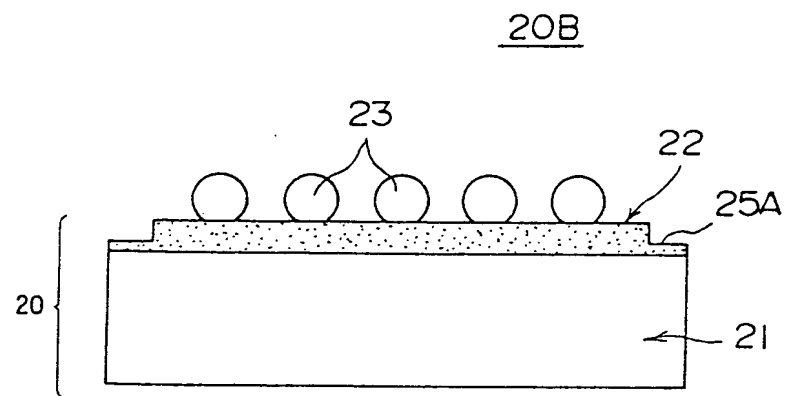


FIG. 7B

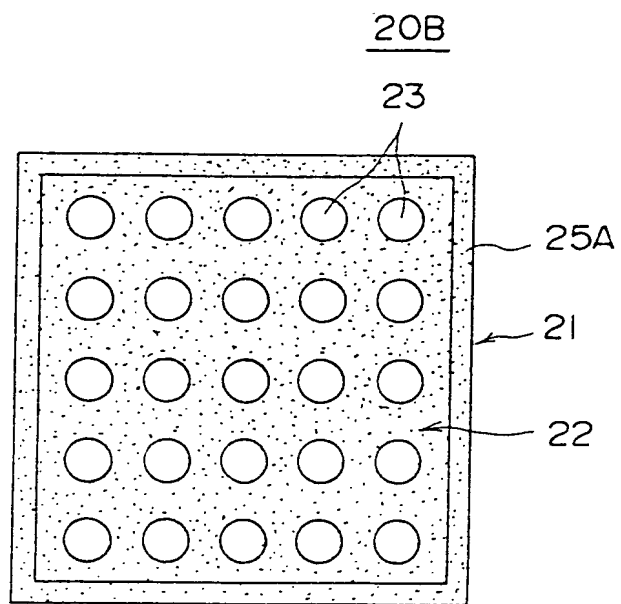


FIG. 8A

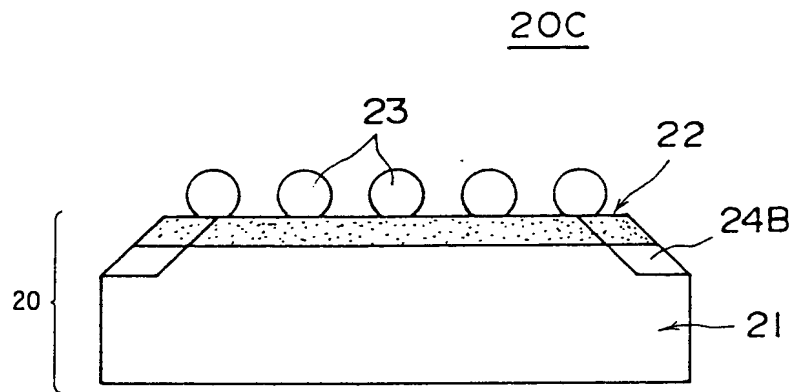


FIG. 8B

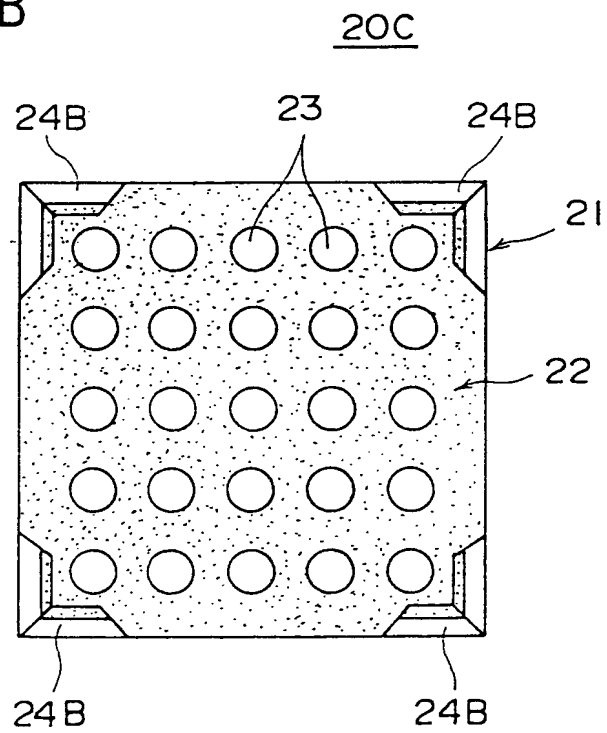


FIG. 9A

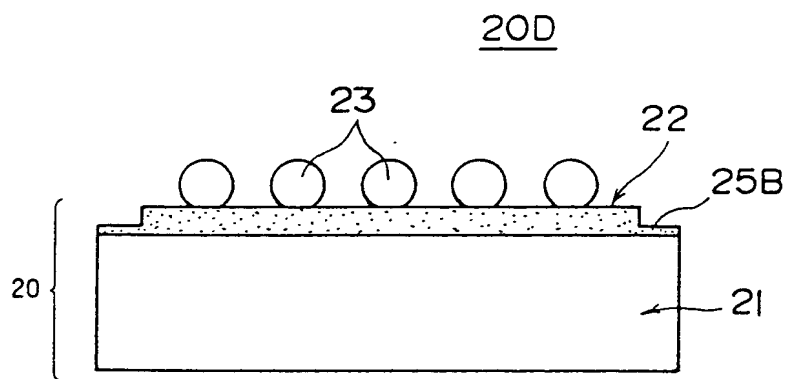


FIG. 9B

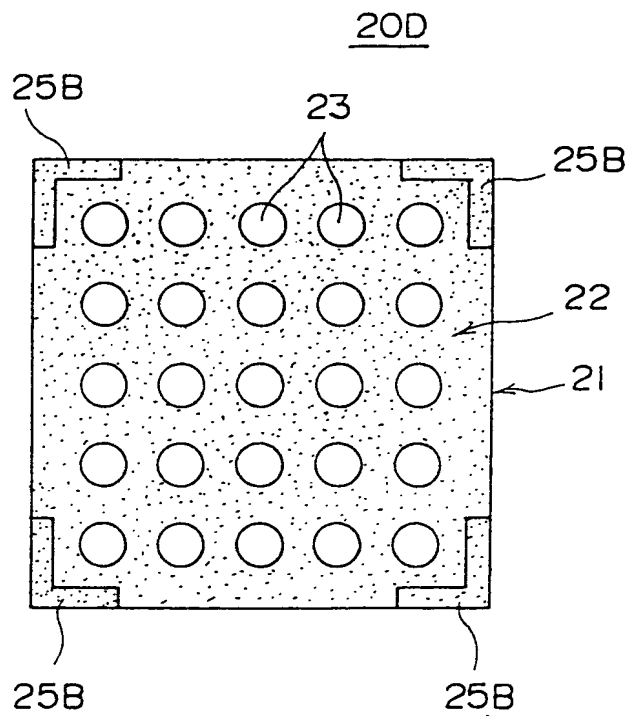




FIG. 10A

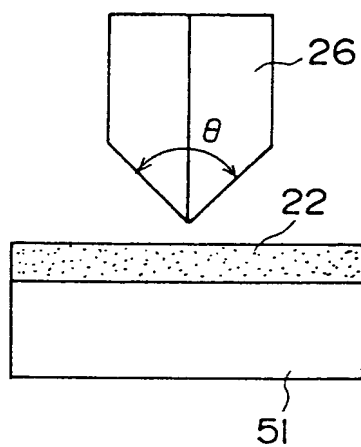


FIG. 10D

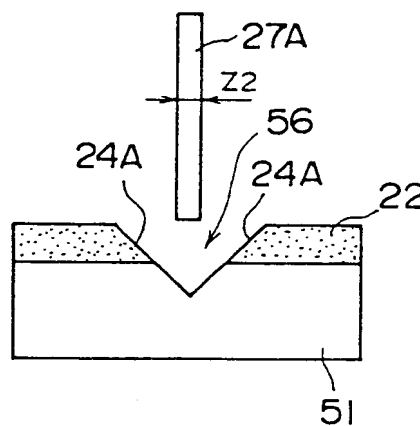


FIG. 10B

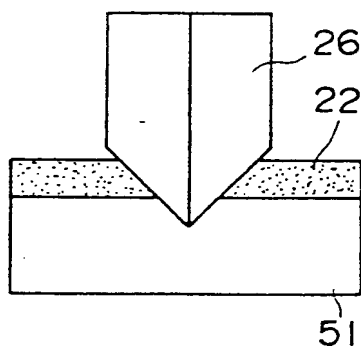


FIG. 10E

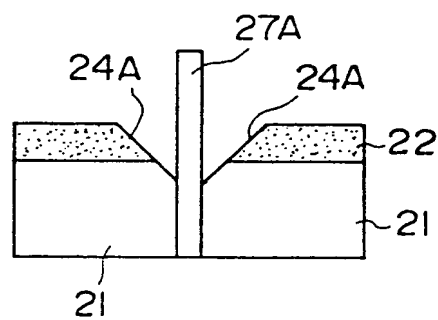


FIG. 10C

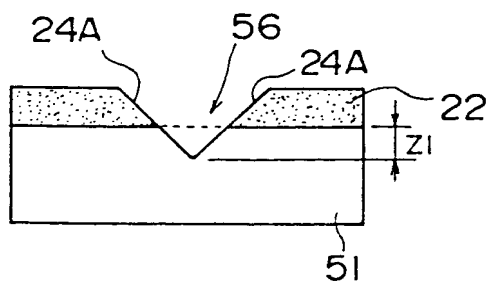


FIG. 10F

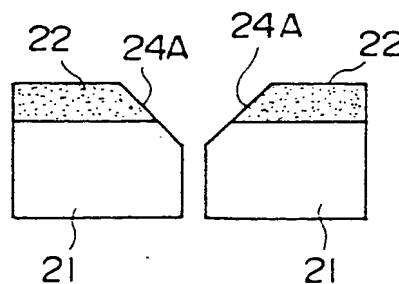


FIG. 11A

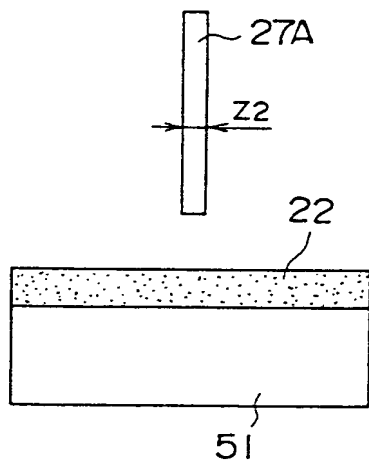


FIG. 11D

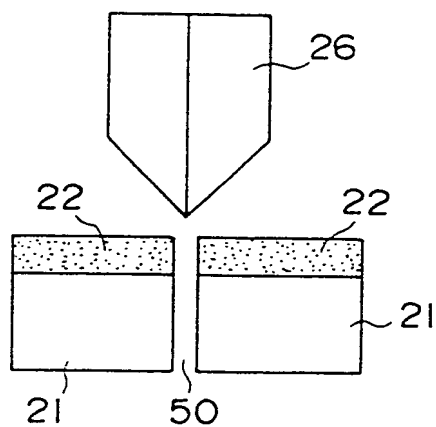


FIG. 11B

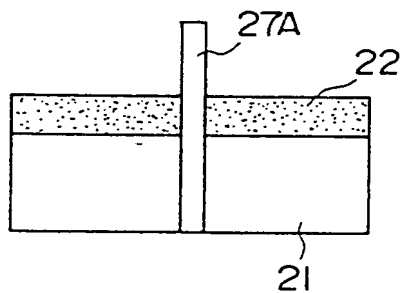


FIG. 11E

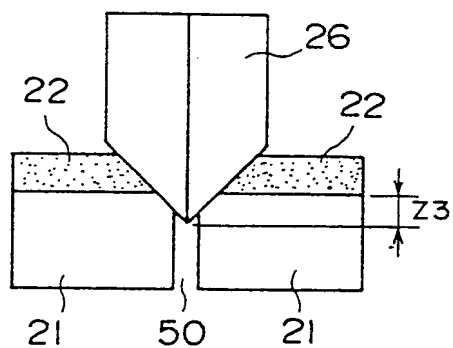


FIG. 11C

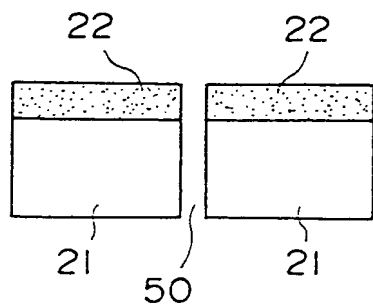


FIG. 11F

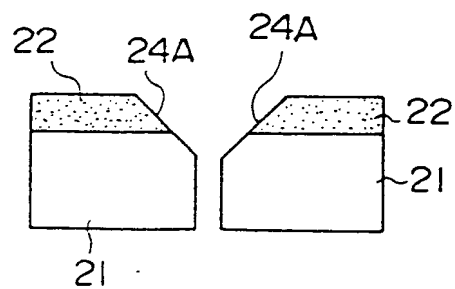


FIG. 12A

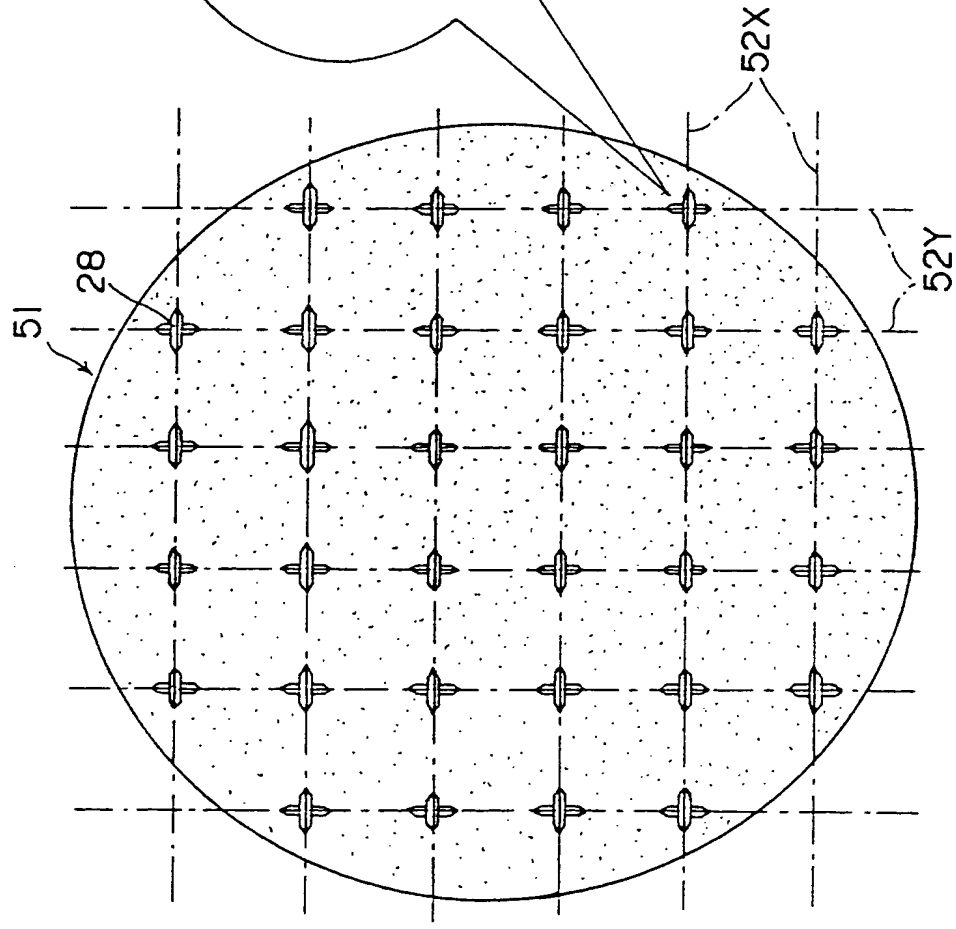


FIG. 12B

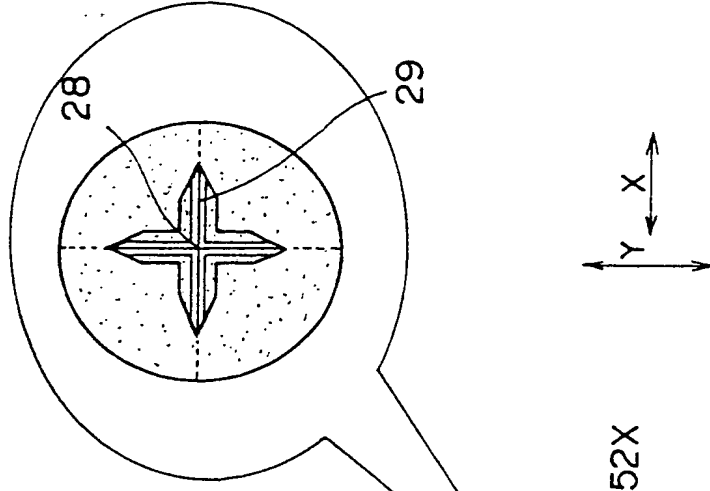


FIG. 13

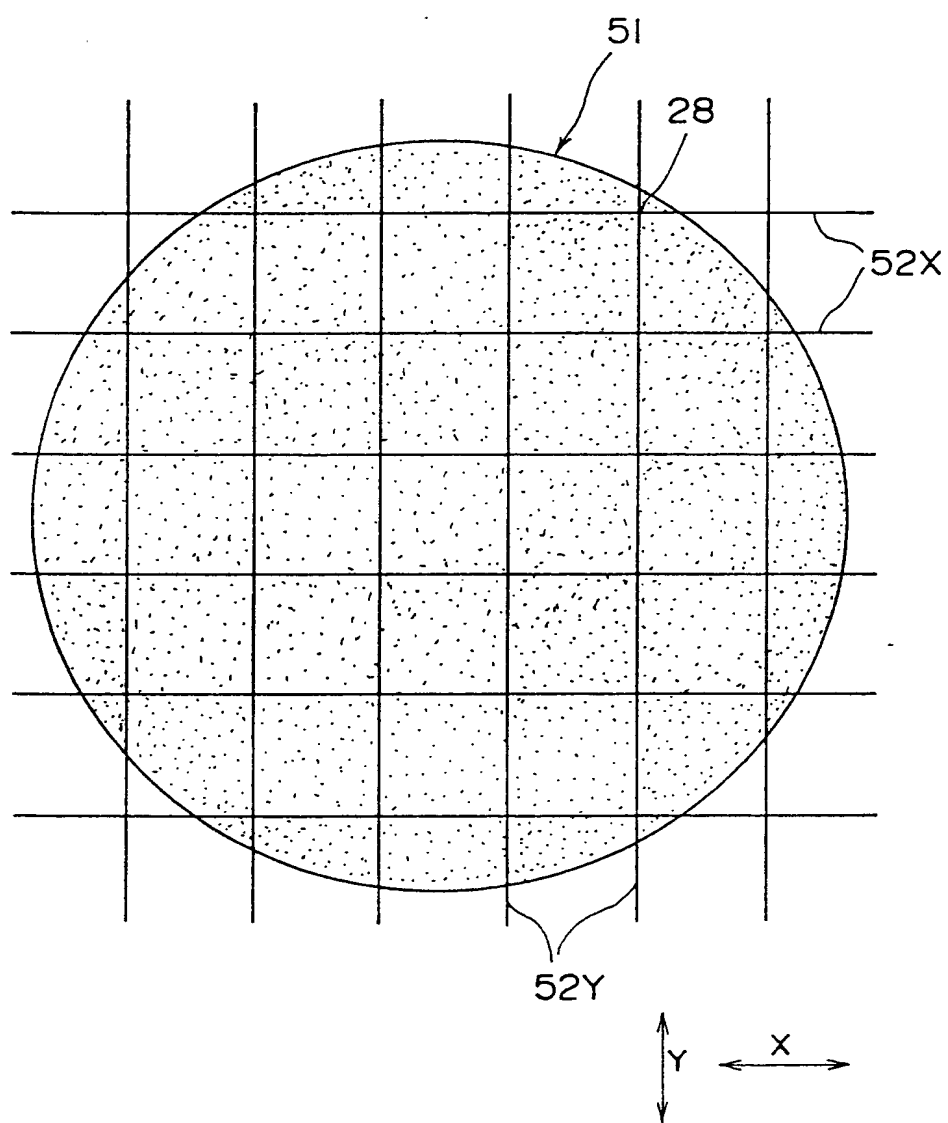


FIG. 14A

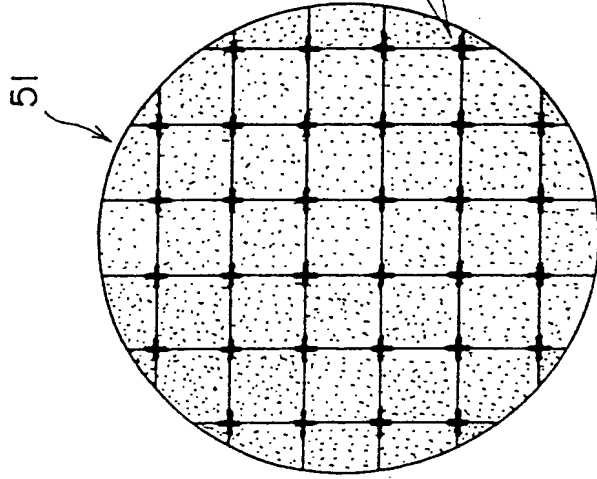


FIG. 14B

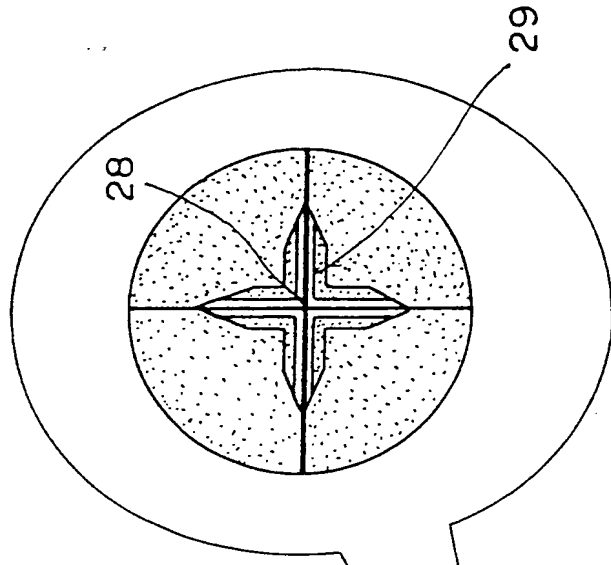


FIG. 15A

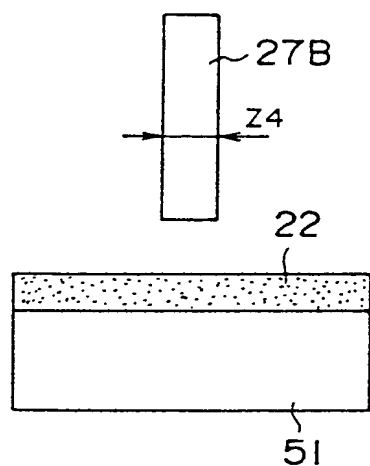


FIG. 15D

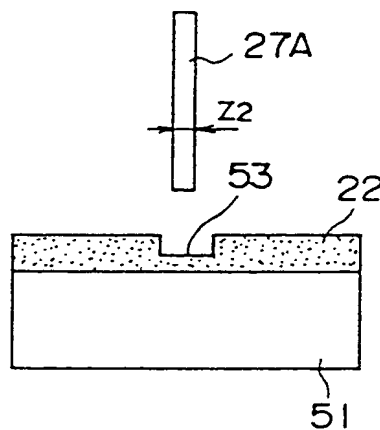


FIG. 15B

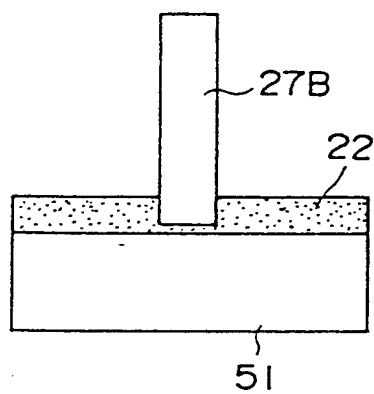


FIG. 15E

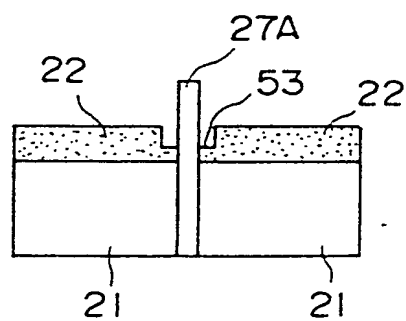


FIG. 15C

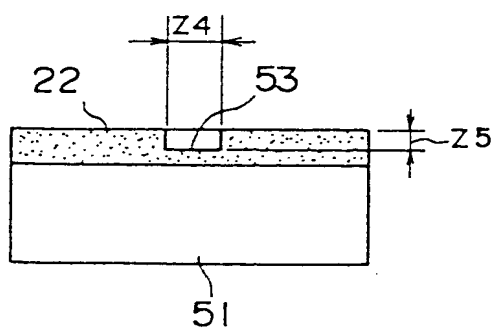


FIG. 15F

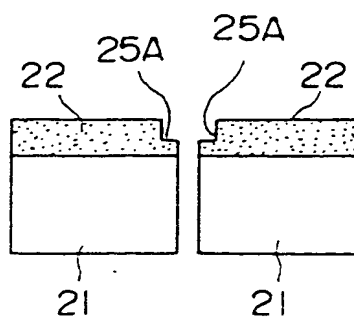


FIG. 16A

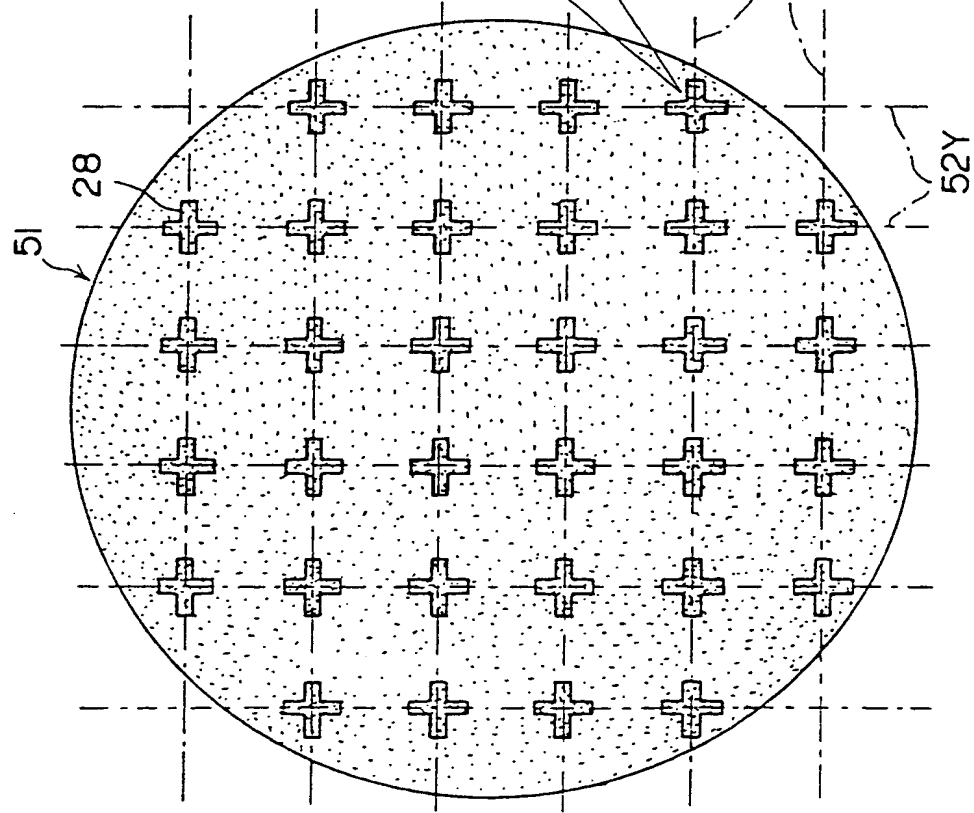


FIG. 16B

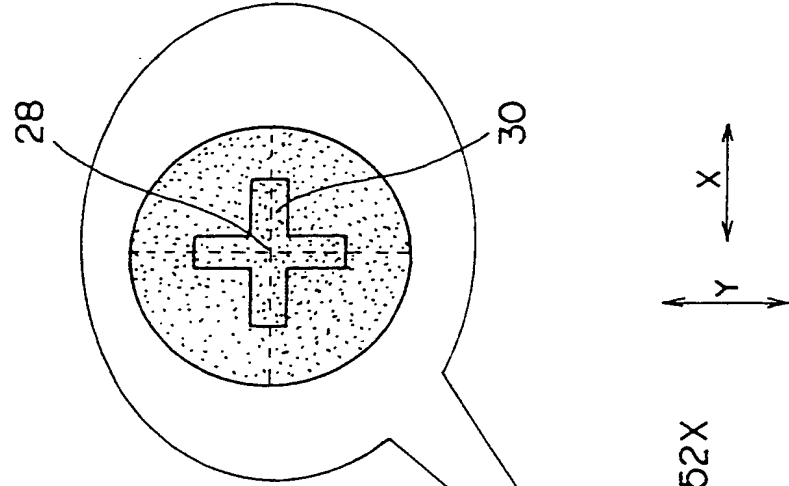


FIG. 17A

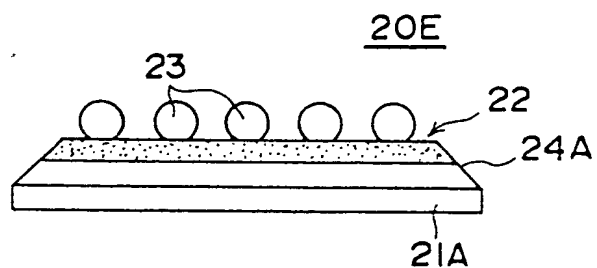


FIG. 17B

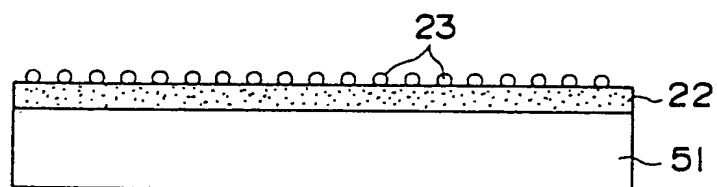


FIG. 17C

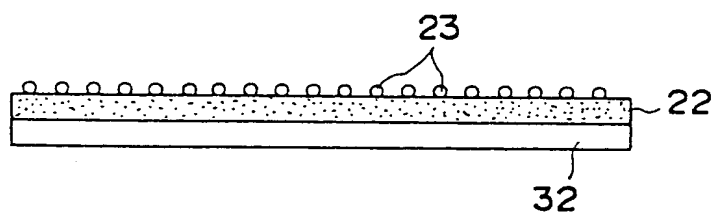


FIG. 17D

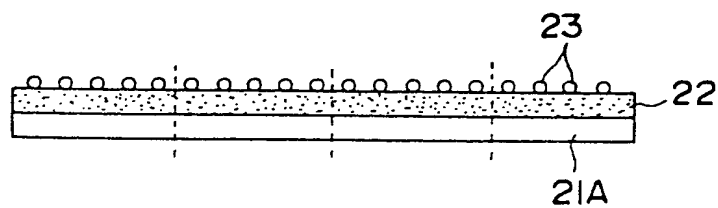


FIG. 17E

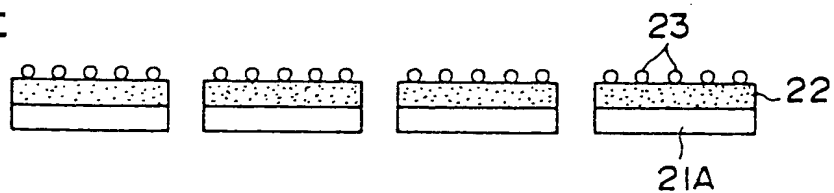




FIG. 18A

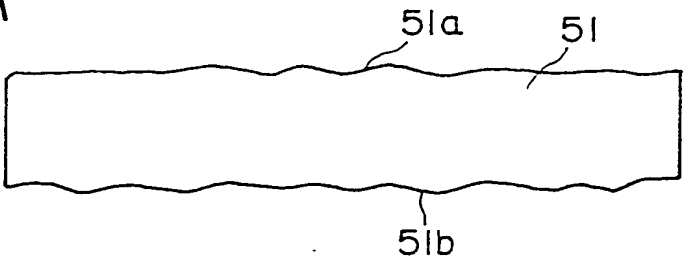


FIG. 18B

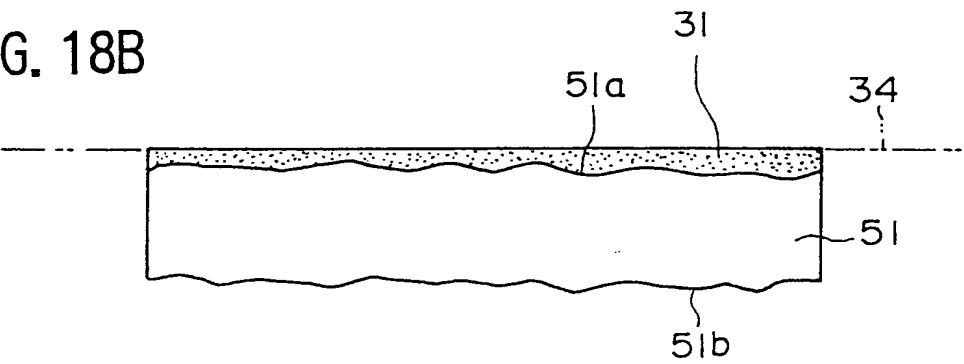


FIG. 18C

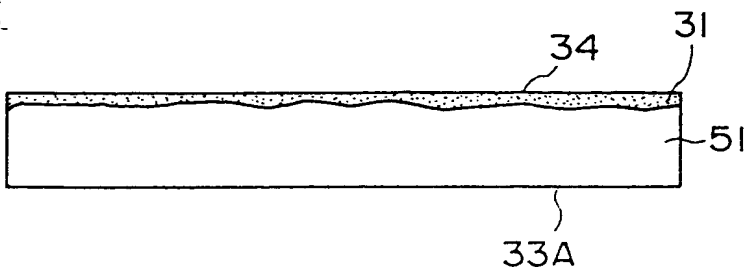


FIG. 18D

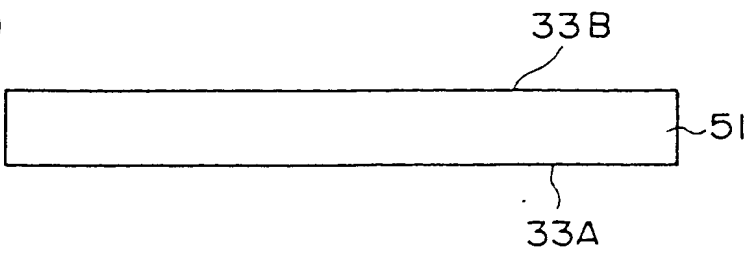


FIG. 19A

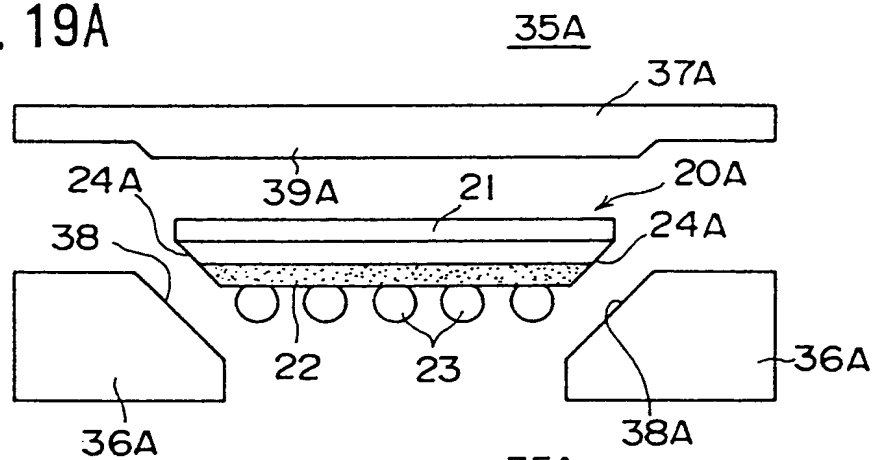


FIG. 19B

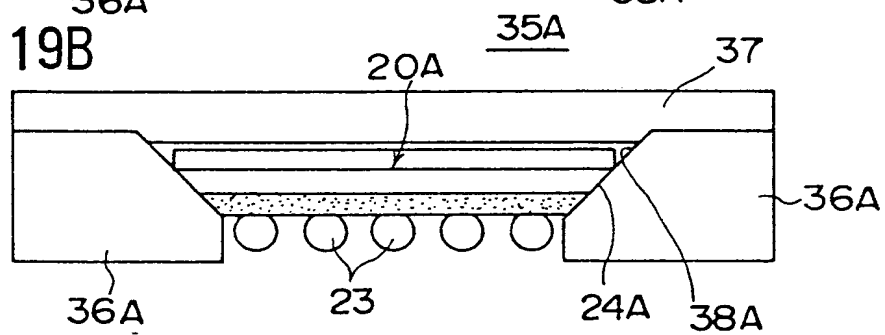


FIG. 19C

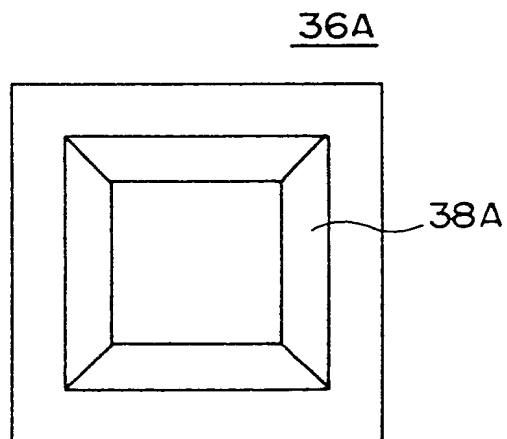


FIG. 20A

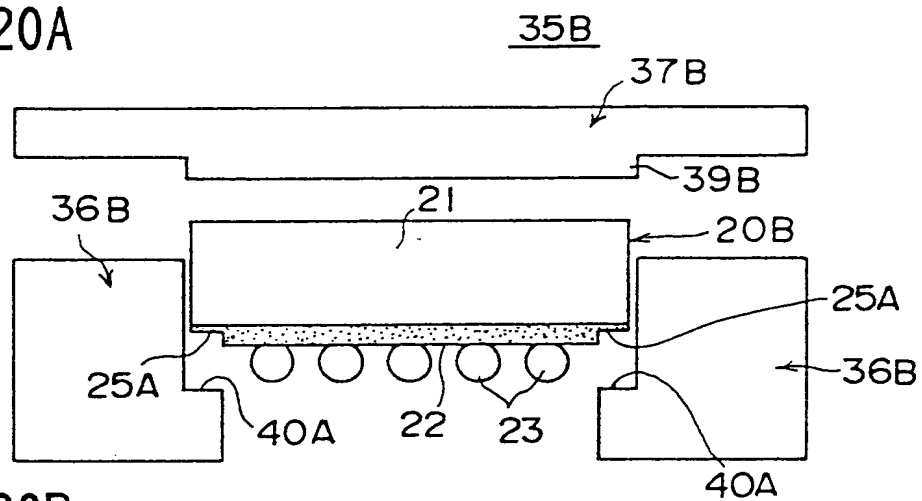


FIG. 20B

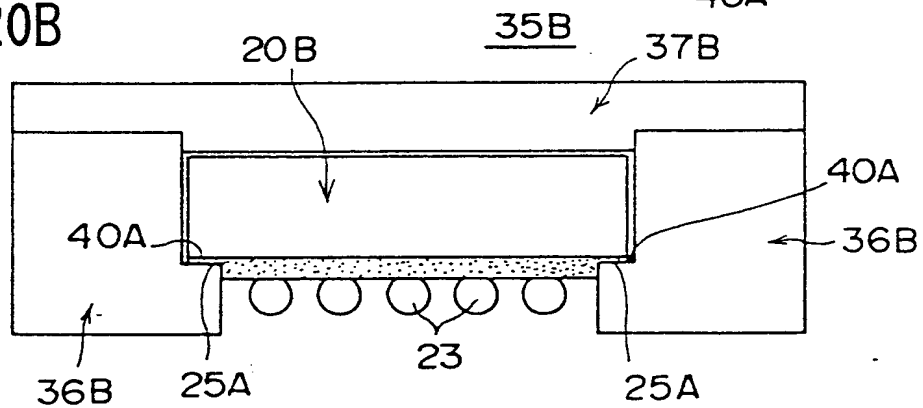


FIG. 20C

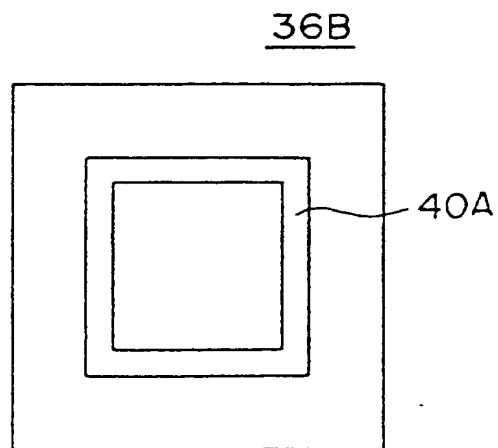


FIG. 21A

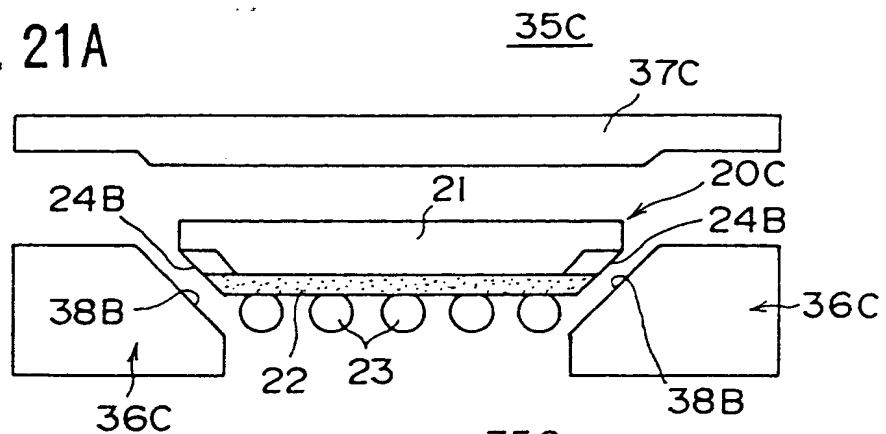


FIG. 21B

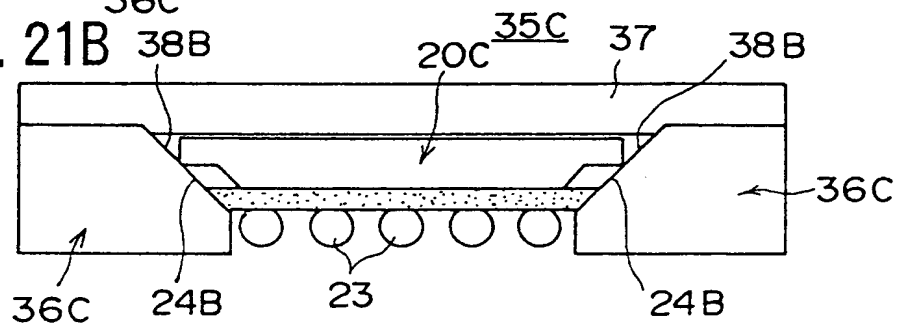


FIG. 21C

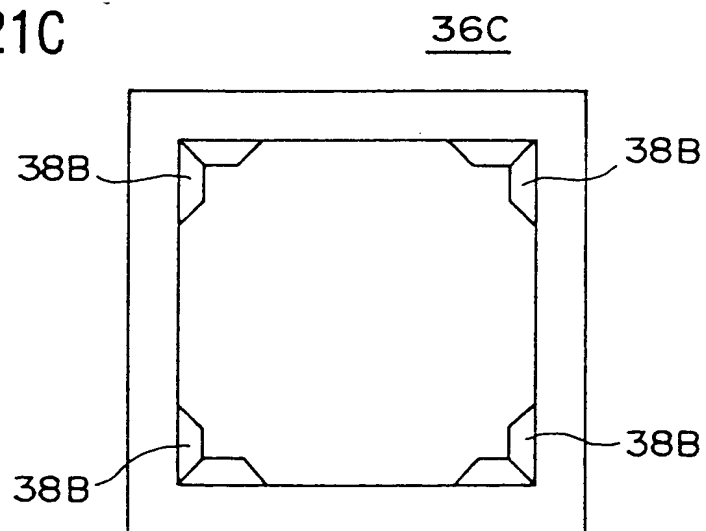


FIG. 22A

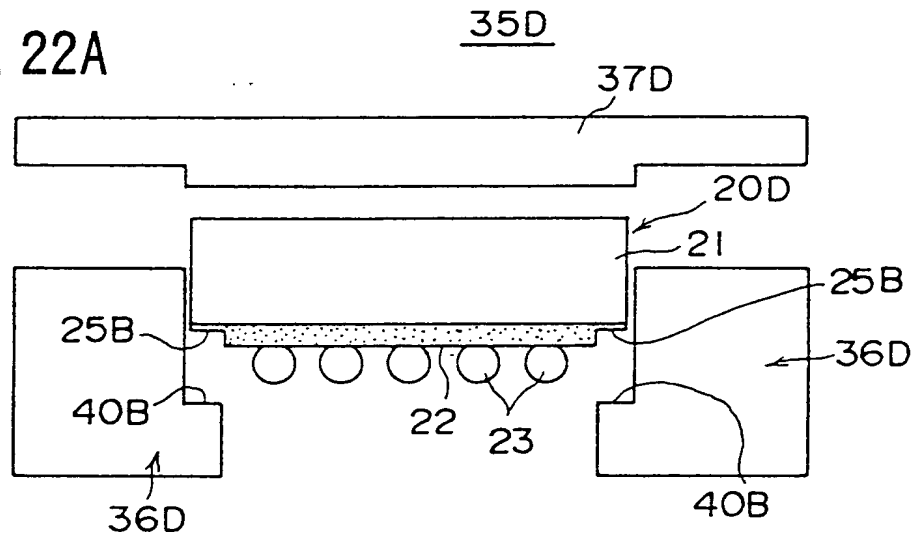


FIG. 22B

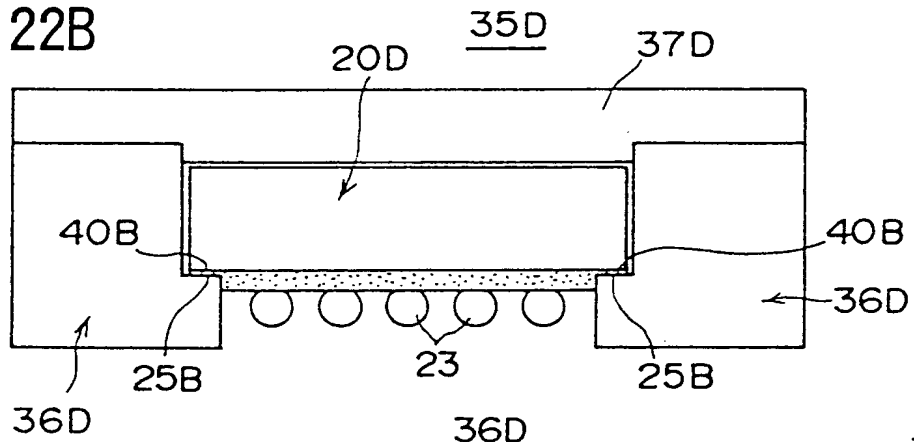


FIG. 22C

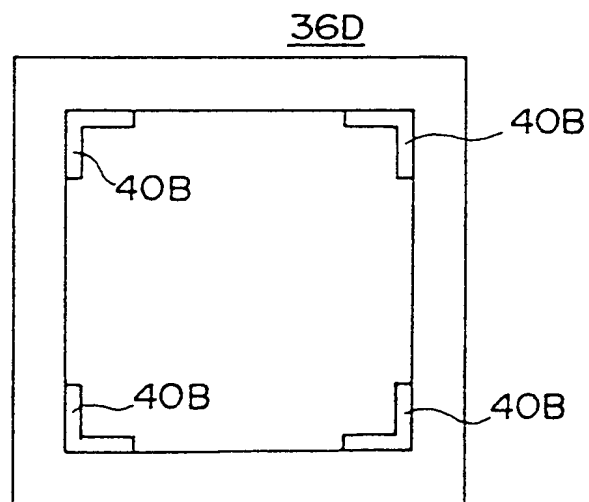


FIG. 23A

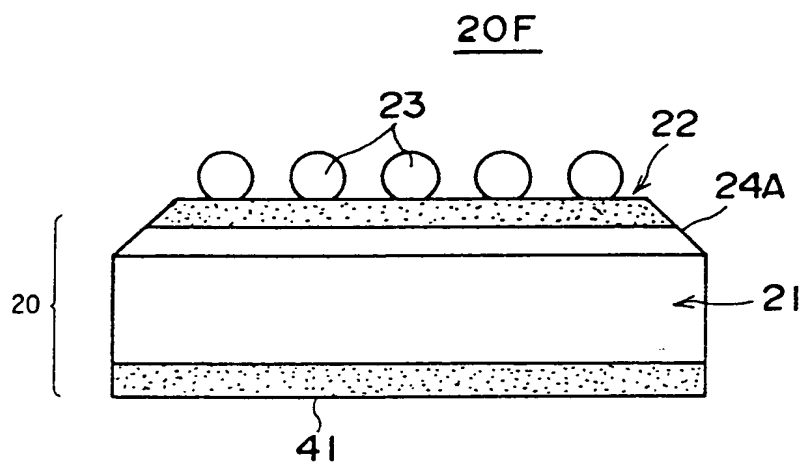


FIG. 23B

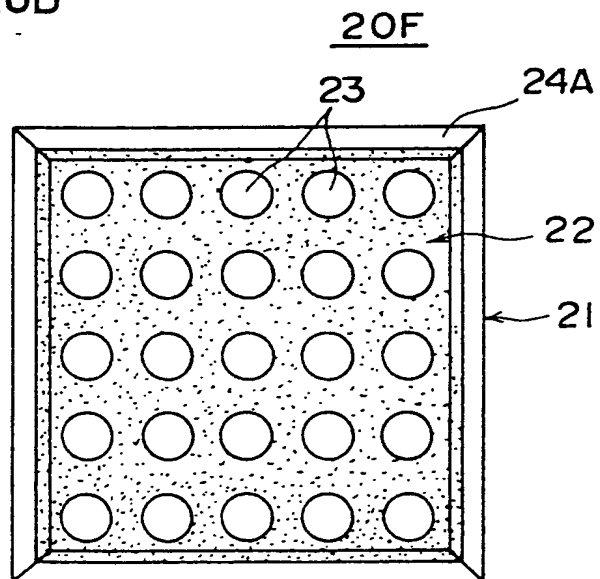


FIG. 24A

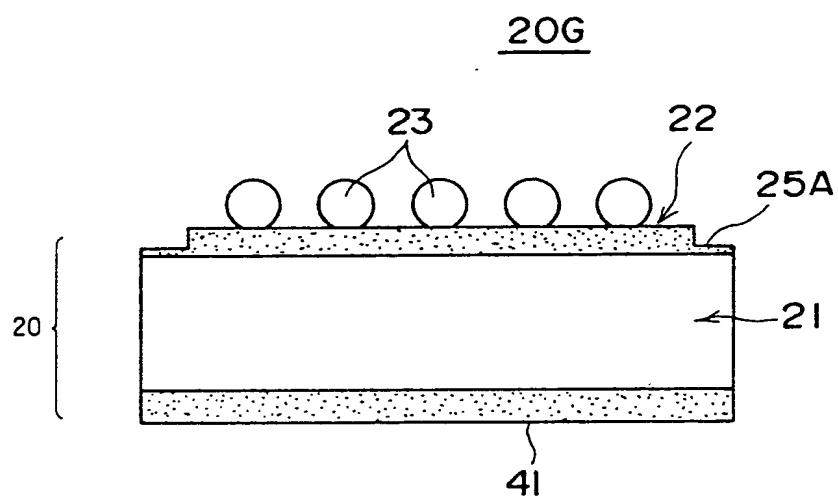


FIG. 24B

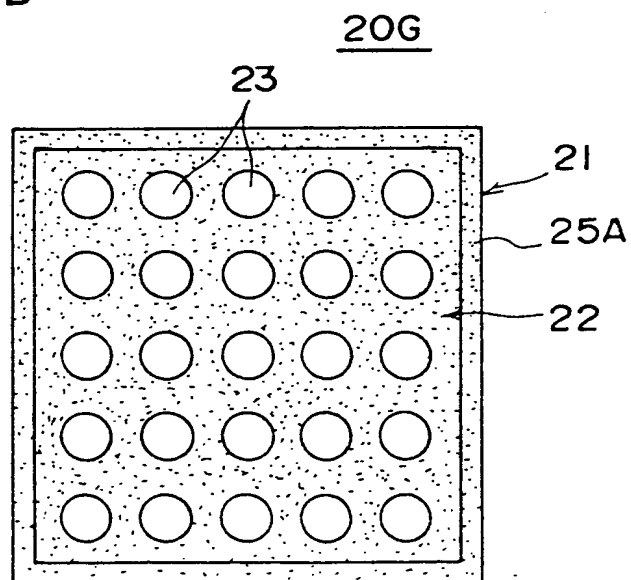


FIG. 25A

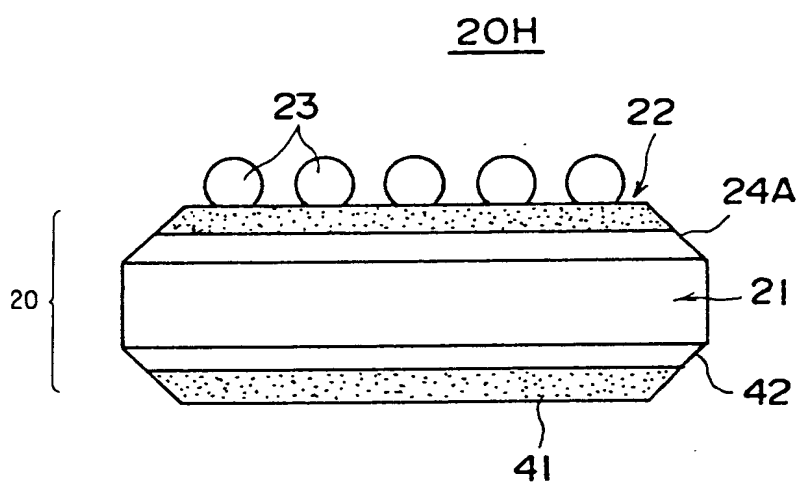


FIG. 25B

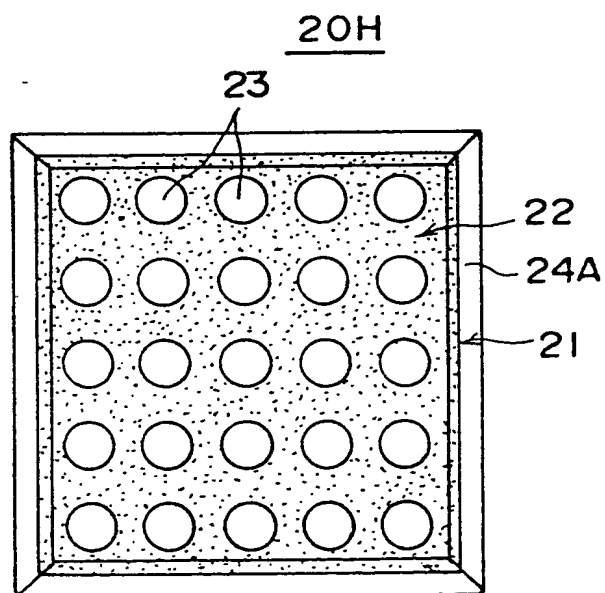




FIG. 26A

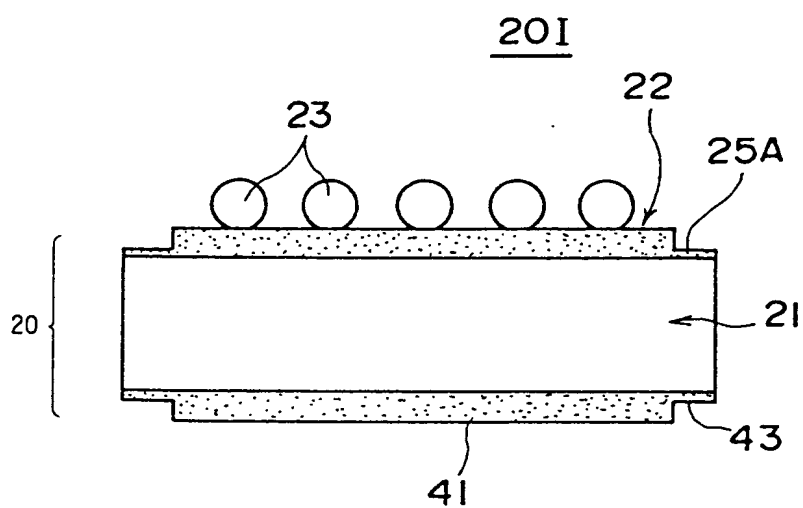


FIG. 26B

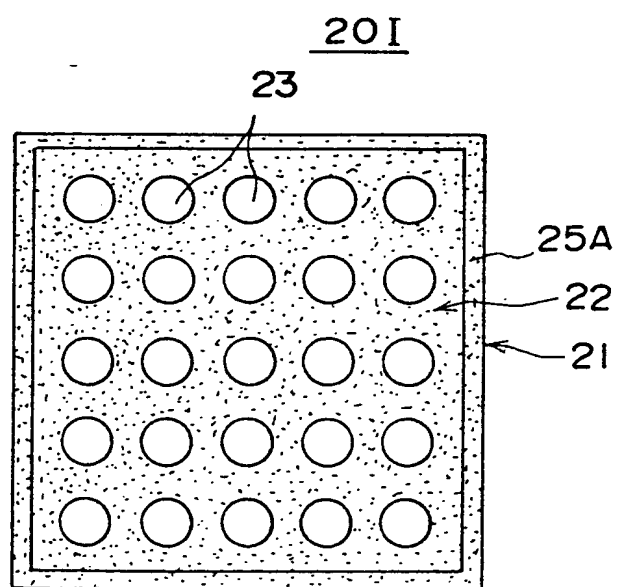


FIG. 28

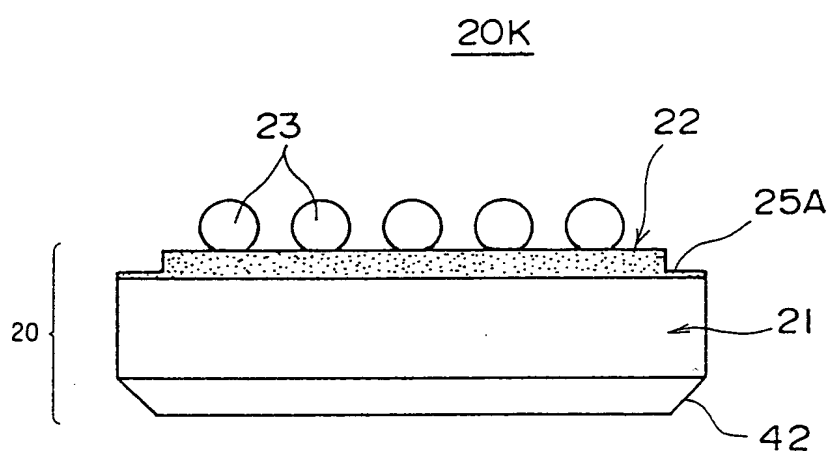


FIG. 27A

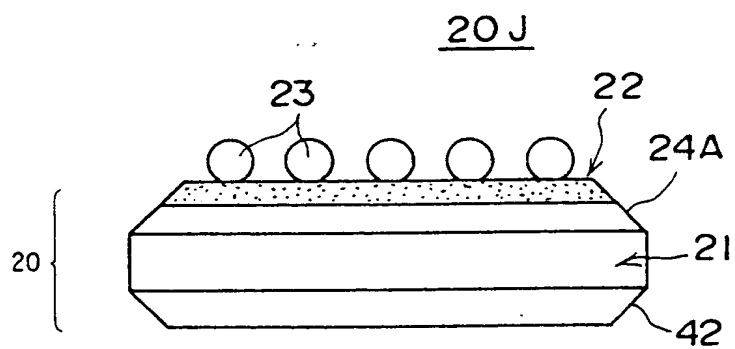


FIG. 27B

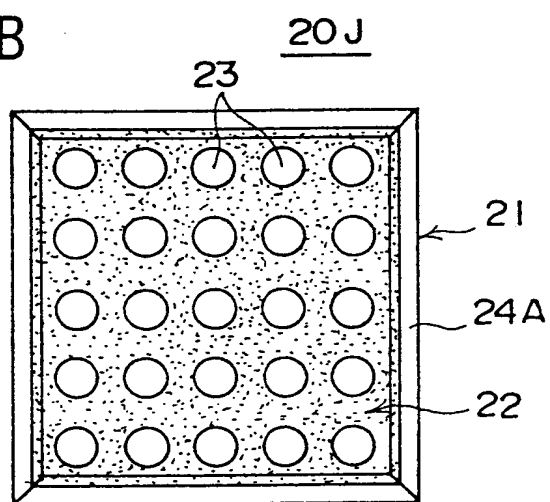


FIG. 27C

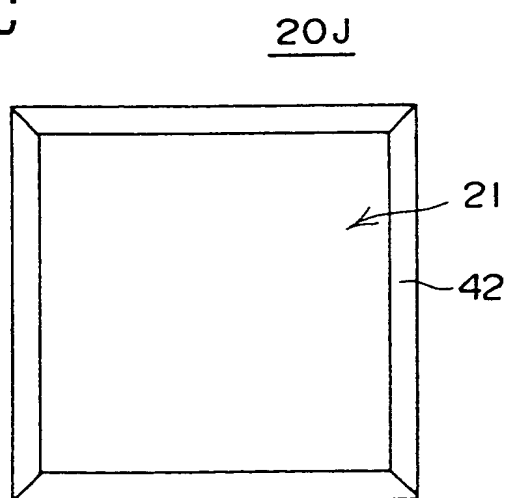


FIG. 29A

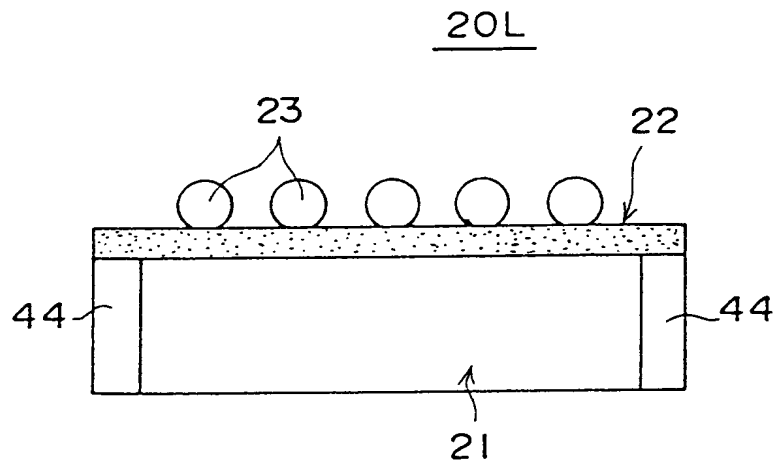


FIG. 29B

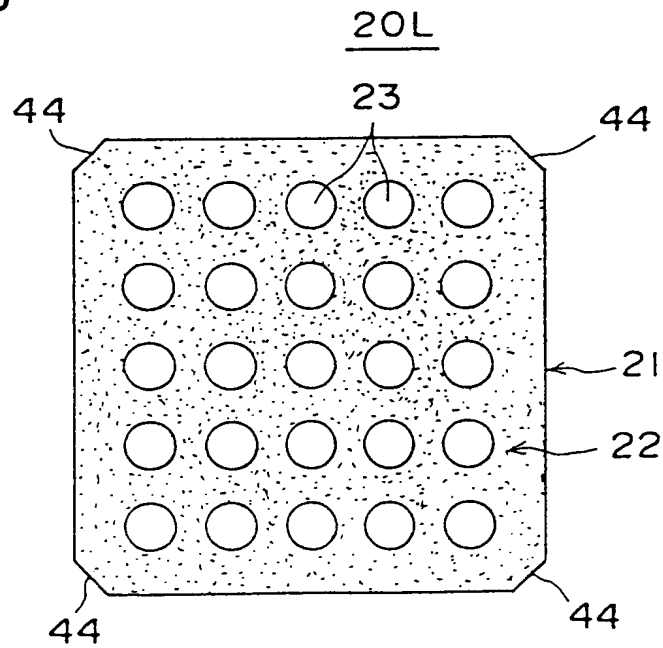


FIG. 30A

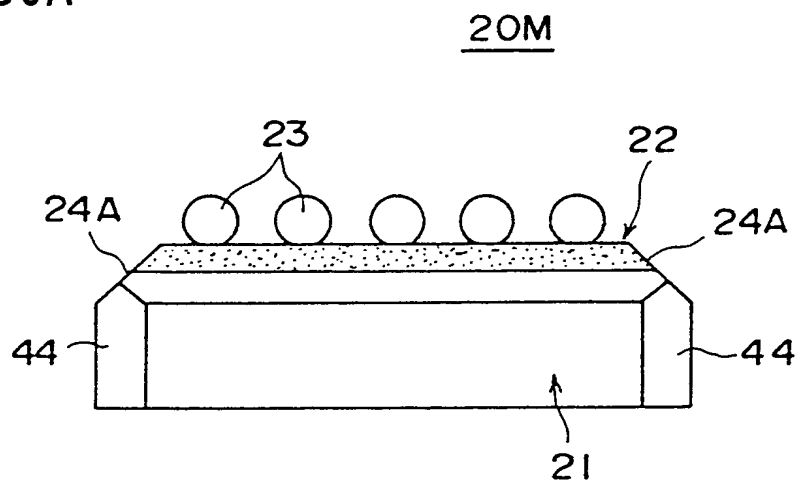


FIG. 30B

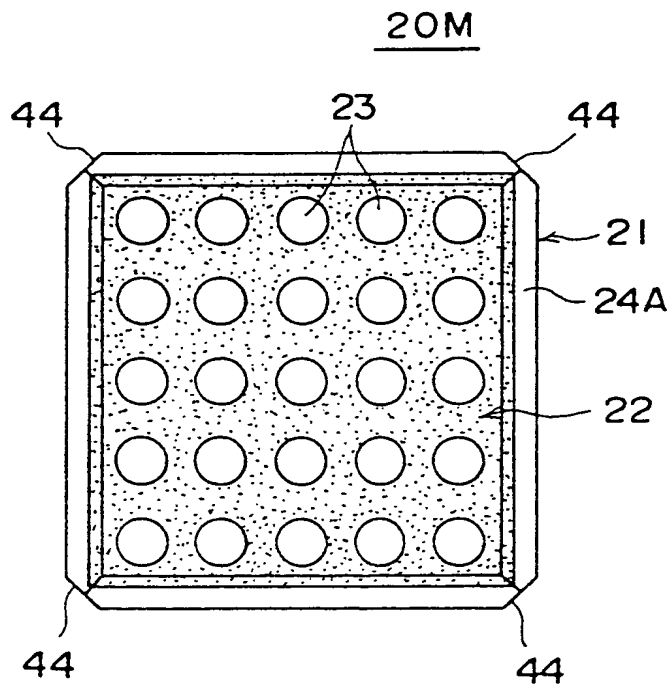


FIG. 31A

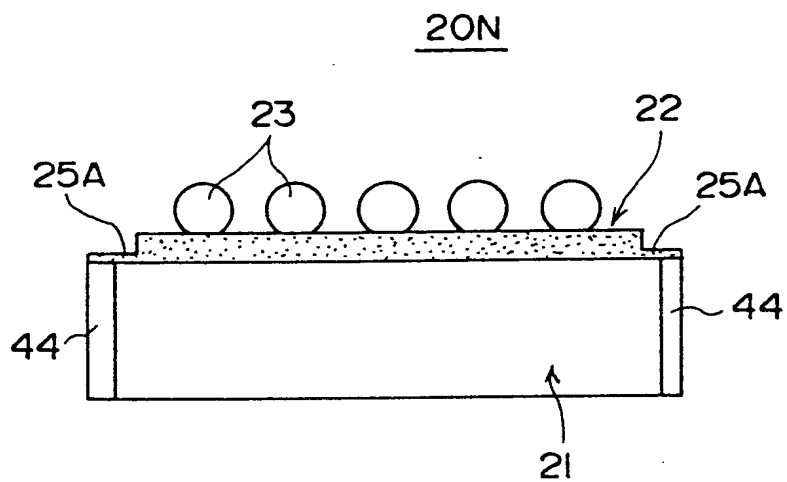


FIG. 31B

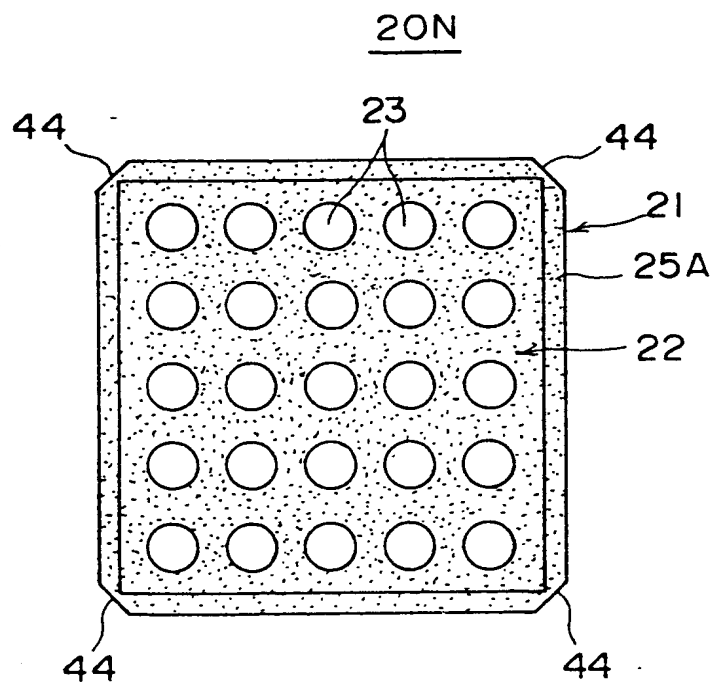


FIG. 32A

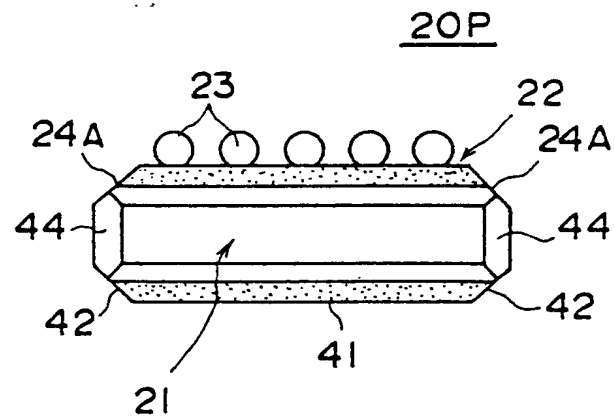


FIG. 32B

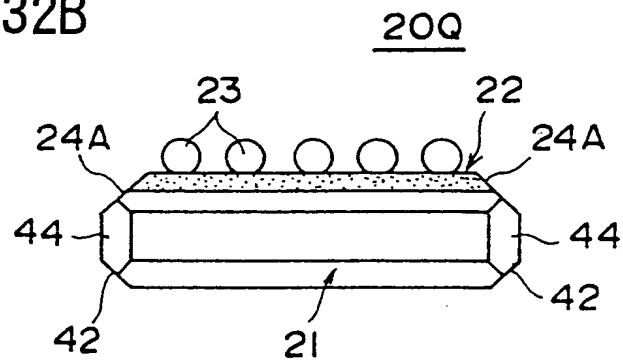


FIG. 32C

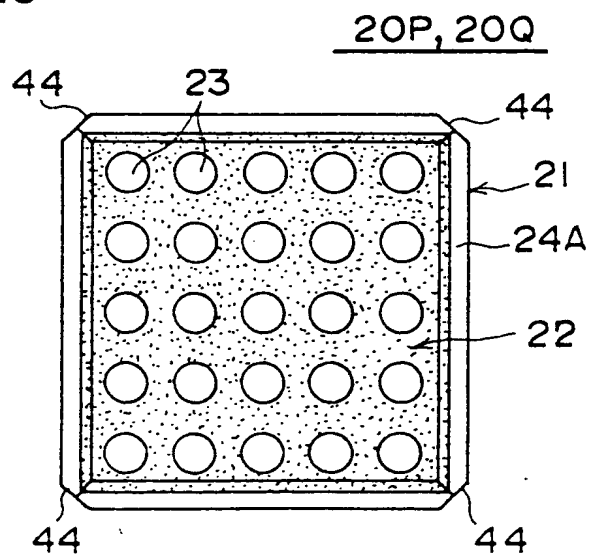


FIG. 33

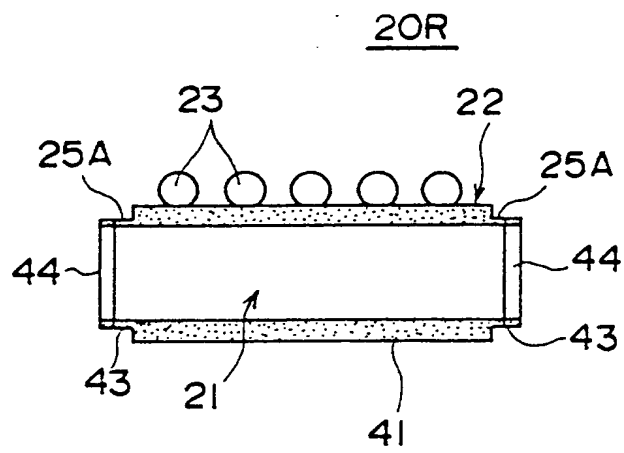




FIG. 34A

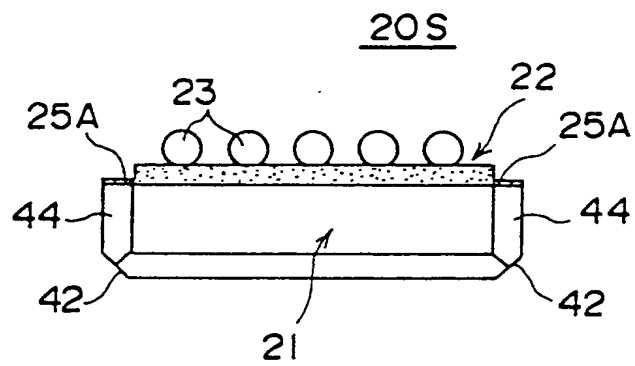


FIG. 34B

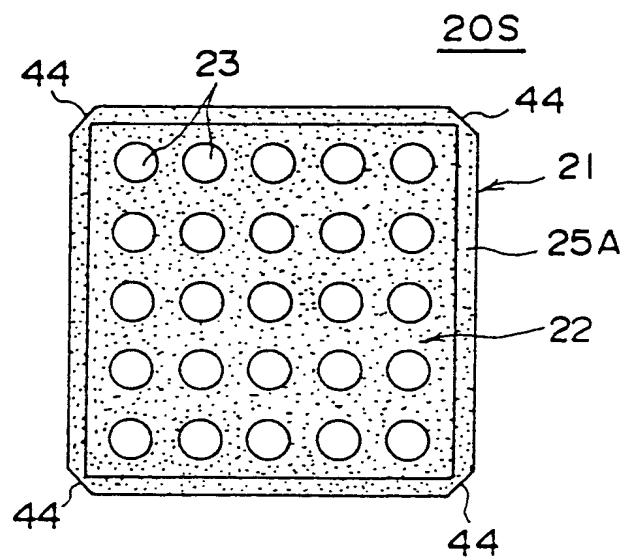


FIG. 35

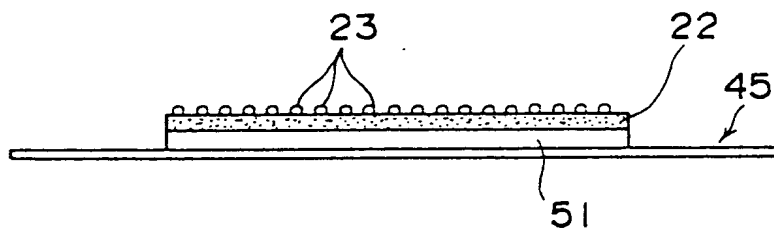


FIG. 36A

FIG. 36C

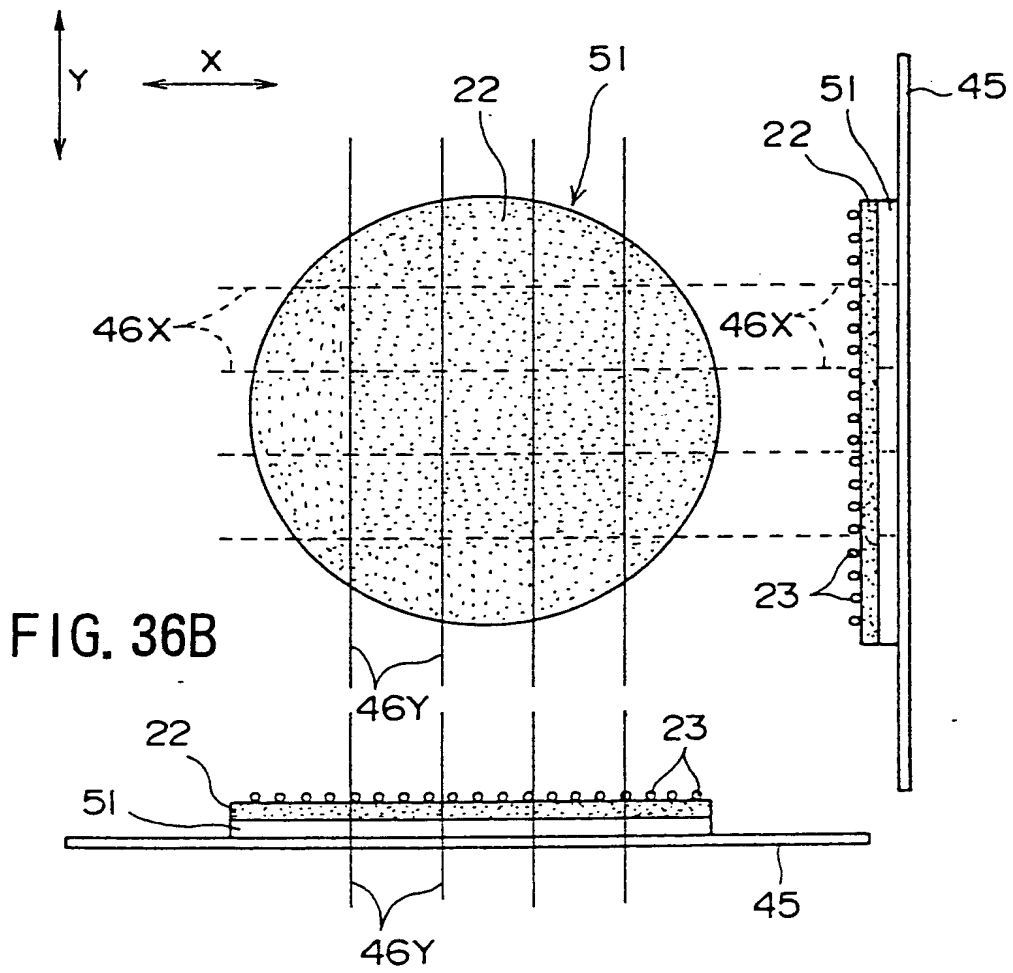


FIG. 37

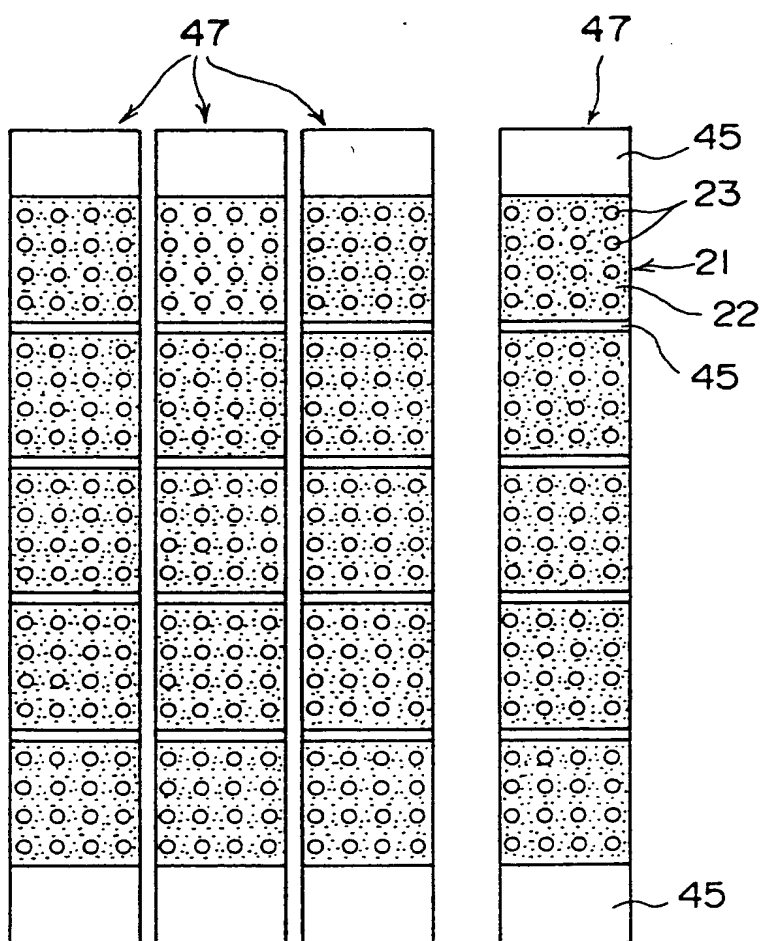


Fig. 1 is a schematic diagram of a cross-section of a composite material. A central vertical line (26) separates two symmetrical regions. Each region contains a grid of small circles (21) within a larger rectangular area (22). The entire structure is bounded by vertical lines (23) and horizontal lines (24). The regions are labeled 44 and 45.

FIG. 39

20T

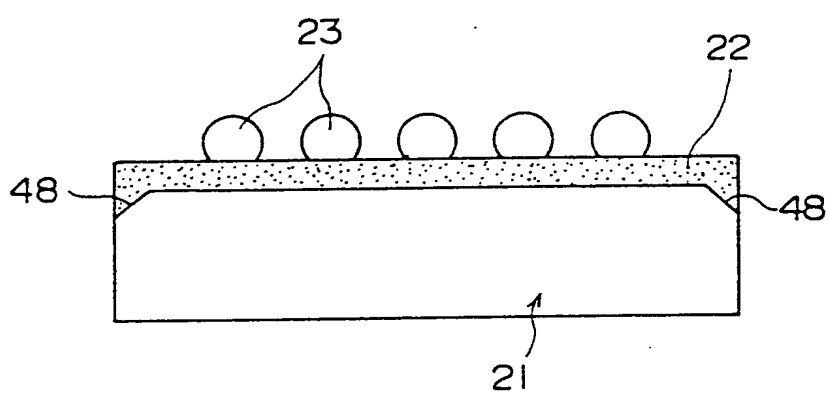


FIG. 40A

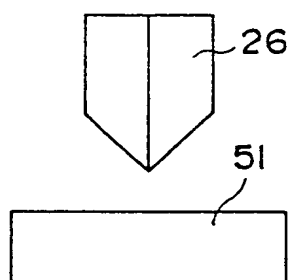


FIG. 40E

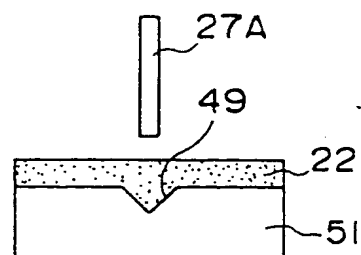


FIG. 40B

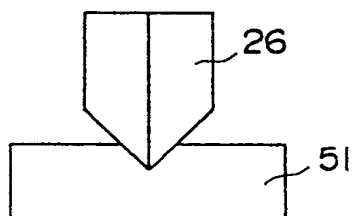


FIG. 40F

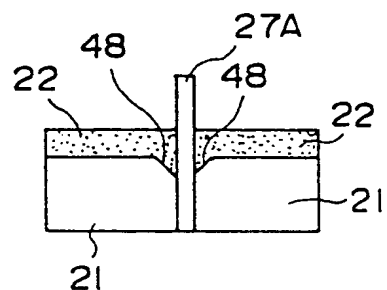


FIG. 40C

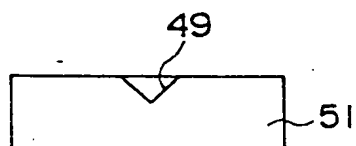


FIG. 40G

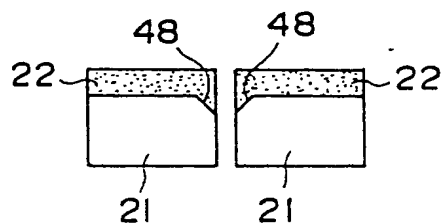


FIG. 40D

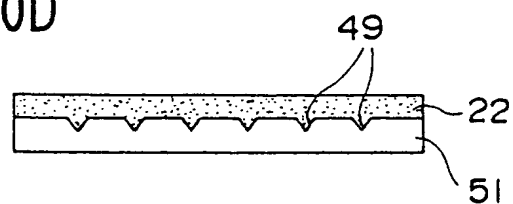


FIG. 41

20U

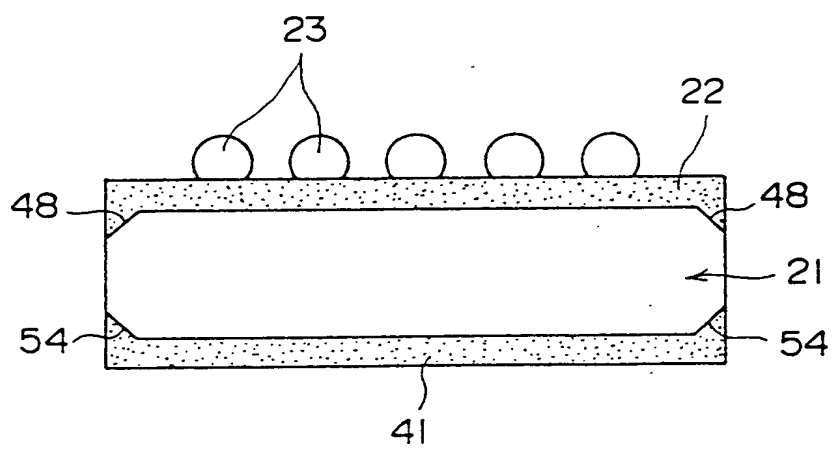




FIG. 42A

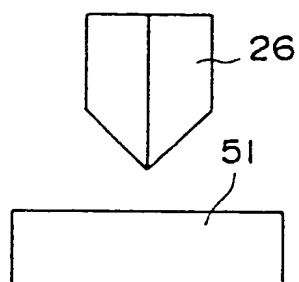


FIG. 42B

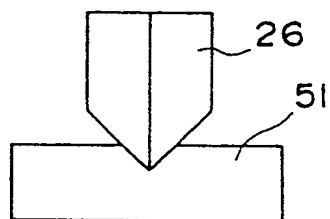


FIG. 42C

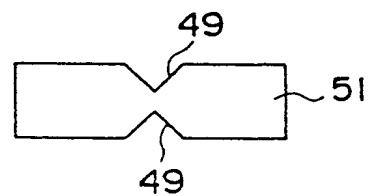


FIG. 42D

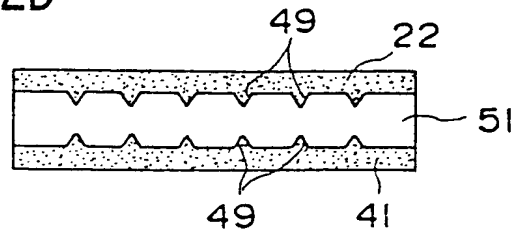


FIG. 42E

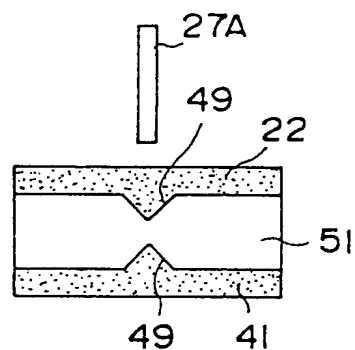


FIG. 42F

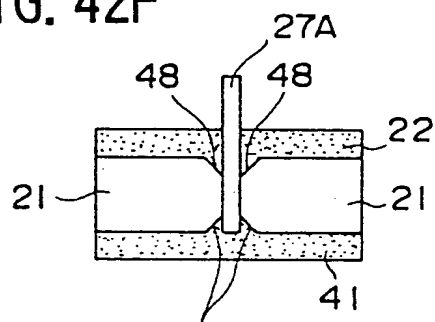


FIG. 42G

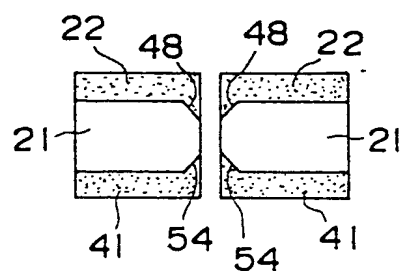


FIG. 43A

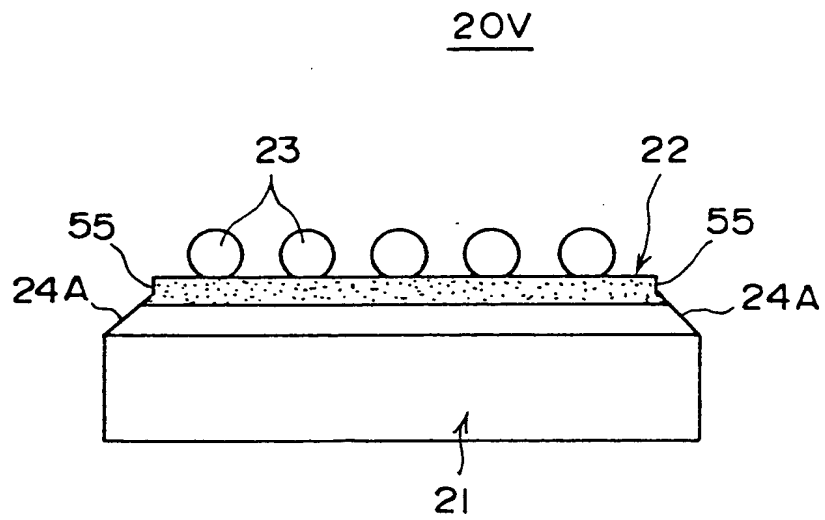


FIG. 43B

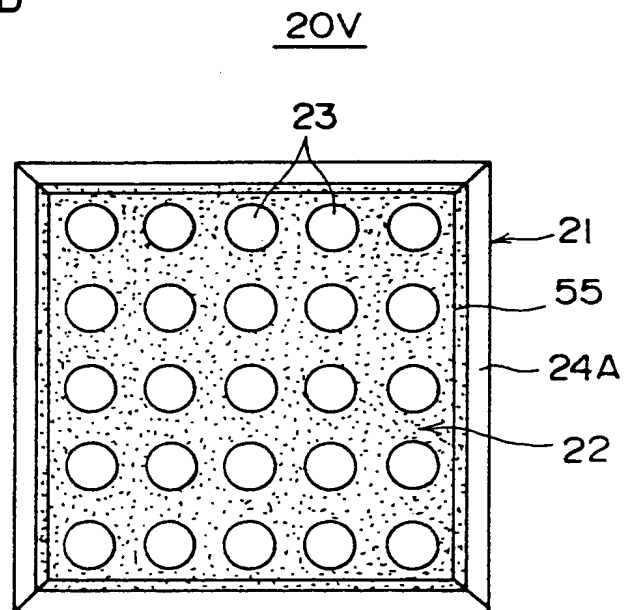


FIG. 44A

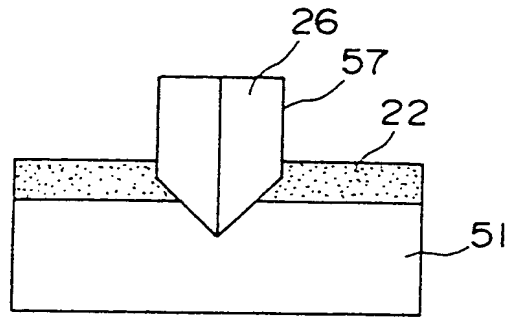


FIG. 44B

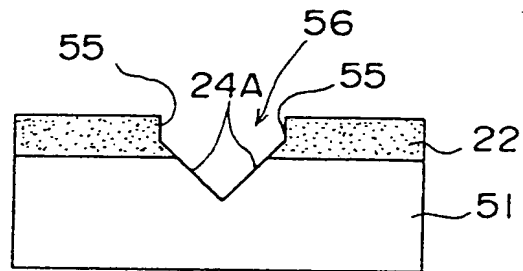


FIG. 44C

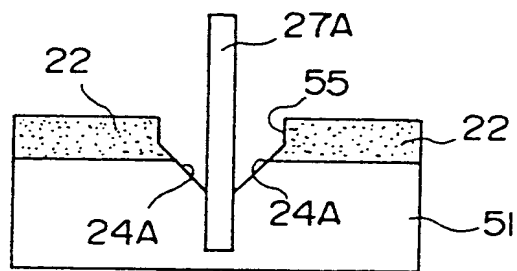


FIG. 44D

